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the Stratigraphy," by Professor Cushing; "Lake Champlain," by Dr. Clarke; "Blastoidocrinus and its Type," by Professor Hudson; "The Lower Siluric Paleography of the Champlain Basin," by Dr. Ruedemann; "The Iroquois Beach and Related Features Northeast of Watertown, N. Y.," by Mr. Taylor; "The Adirondack Iron Ores Deposits," by Professor Kemp.

Those who attend the meeting may purchase local excursion tickets to Plattsburg. From many places these tickets are as low as one and one third single fare. The Trunk Line and New England Associations, Canadian Pacific Railway, Grand Trunk Railway, and Canada Atlantic Railway have made a special rate on the certificate plan of one full fare going and one third full fare returning plus 25 cents for certificate fee, which shall be paid to the agent when purchasing return ticket. Tickets for the going journey may be bought and certificate procured from June 11 to September 30. Tickets returning will be good to October 2. In this case tickets should be purchased to Cliff Haven, and the certificates should be procured for "The Catholic Summer School of America." In order to take advantage of this one and one third fare the sum of \$1.50 must be paid for membership in the Catholic Summer School. Rooms may be secured at \$1.00 a day in the buildings of the Summer School. Members may take their meals at the Champlain Club; breakfast, lunch or supper, 50c.; dinner, 75c. At the Hotel Champlain the rate will be \$4.00 a day and upward.

SCIENTIFIC NOTES AND NEWS

DR. E. H. SELLARDS, for three years geologist and zoologist to the Florida University, has been appointed state geologist of Florida by Governor Broward. The vacancy at the university will probably be filled by the appointment of a zoologist.

DR. E. A. RUDDIMAN, professor of materia medica and pharmacy at Vanderbilt University, Nashville, has been appointed chief food and drug inspector of the Department of Agriculture.

YALE University has conferred the degree of doctor of science on Professor Joseph P. Iddings, who holds the chair of petrology in the University of Chicago, a graduate of the class of '77; and on Dr. A. B. Macallum, who holds the chair of physiology in the University of Toronto. The university has conferred the doctorate of laws on Dr. Herbert Putnam, librarian of congress.

At the fifth annual commencement of the College of Medicine of the University of Nebraska, the address was made by Dr. Nicholas Senn, of Chicago. The doctorate of laws was conferred on Major James Carrol, U. S. A.

PROFESSOR CHARLES S. DENISON, of the University of Michigan, has received the degree of doctor of science from the University of Vermont, from which institution he received the degree of civil engineer in 1871.

AMHERST COLLEGE has conferred its doctorate of laws on Mr. Percival Lowell, the astronomer and author.

OXFORD UNIVERSITY has conferred honorary doctorates of science as follows: Sir Norman Lockyer, K.C.B., F.R.S., director of the Solar Physics Observatory, South Kensington; Sir Richard Douglas Powell, K.C.V.O., physician extraordinary to the king, president of the Royal College of Physicians; Sir William Ramsay, K.C.B., F.R.S., professor of chemistry at University College, London; Sir William Henry Perkin, F.R.S.; William Watson Cheyne, C.B., F.R.S., professor of surgery at King's College, London, and Ludwig Mond, Ph.D., F.R.S.

CAMBRIDGE UNIVERSITY has conferred the degree of doctor of science on Sir Clements Robert Markham, until recently president of the Royal Geographical Society; on Sir Thomas Hungerford Holdich, known for his explorations in India, and on Sir Thomas Fraser, professor of materia medica in the University of Edinburgh.

THE Academy of Sciences of Vienna has elected as honorary member Dr. A. von Baeyer, professor of chemistry at the University of Munich; and, as corresponding members, Dr. Wilhelm Waldeyer, professor of

anatomy in the university of Berlin, Dr. Ernst Ehlers, professor of zoology in the University of Göttingen, and Professor Svante Arrhenius, director of the division of physical chemistry of the Nobel Institute of the Academy of Sciences of Stockholm.

THE British Iron and Steel Institute has awarded its Bessemer gold medal to Dr. J. Brinell, Stockholm, for his researches on the changes in the structure of steel with temperature changes.

THE Association of German Chemists has awarded its Liebig gold medal to Dr. Adolf Frank, the founder of the German potash industry.

THE Italian Scientific Society has conferred its gold medal for mathematics on Professor G. Lauricella, of Catania.

A GOLD jubilee cup has been presented to Sir Charles A. Hartley by the European Commission of the Danube, in commemoration of the fiftieth anniversary of his engagement as engineer-in-chief to the commission.

ON the occasion of the celebration of the twenty-fifth anniversary of the founding of the Russian Pirogoff Surgical Association at St. Petersburg ten foreign honorary members were elected—Drs. Senn, Roux, Lennander, Watson, Horsley, Quénu, Poncet, Rydigier, Roentgen and Trendelenburg.

MR. EDWARD ROBERTS has retired from the position of chief assistant of the British Nautical Almanac Office, and has been succeeded by Mr. P. L. H. Davis, F.R.A.S.

PROFESSOR ARTHUR FAIRBANKS, who holds the chair of Greek at the University of Michigan, has been elected director of the Boston Museum of Fine Arts.

PROFESSOR E. H. STARLING, of the University of London, has accepted the invitation to give the Herter lectures at the University and Bellevue Hospital Medical College. The lectures will commence after the Christmas recess, and their subject will be "The Fluids of the Body and their Regulation." They will deal with the production and absorption of lymph, the intake by the intestines and the output by the kidneys; with the regulation of

the total amount and molecular concentration of the body fluids under varying conditions, such as bleeding, transfusion, heart-failure, dropsy, muscular exercise, high altitudes.

THE Weld Hall of Ethnology of the Peabody Academy of Science, Salem, Mass., was opened on the evening of June 26, when an address was made by Dr. Edward S. Morse, the director of the academy.

DR. PAUL GORDAN professor of mathematics at Erlangen, has retired from active service.

DR. OTTO MÜLLER has been given the title of professor at Berlin, in recognition of his work on diatoms.

PROFESSOR W. G. FARLOW represented Harvard University on the occasion of the Linnæan celebrations at Upsala and Stockholm.

PROFESSOR E. RICCIOLI, of Rome, has visited Boston and inspected the parasite work conducted by Mr. A. H. Kirkland in connection with the gypsy and brown-tail moth crusade.

AT Oberlin College, the leave of absence of Professor Maynard M. Metcalf and of Associate Professor Robert A. Budington is extended for another year, owing to the delay in the completion of the zoological laboratory.

PROFESSOR J. PERRIN SMITH, of Leland Stanford University, and Professor J. Culver Hartzell, of the University of the Pacific, will spend three or four weeks during the summer in the western and central parts of Nevada. Dr. Smith will study the stratigraphic, and Dr. Hartzell the physiographic and structural, features of the West Humboldt, the east and the Dosatoya ranges in particular.

PROFESSOR NEWTON has bequeathed to Cambridge University his natural history collections and library, together with the cabinets, cases and apparatus; also his copyrights, books, pictures, prints, drawings, letters and papers relating to natural history; also the sum of £1,000, whose annual income is to be employed in keeping up and adding to the library.

DR. THOMAS EVANS, professor of chemistry in the University of Cincinnati, dean of the

College of Engineering, died on June 28, at the age of forty-four years.

MRS. ELIZABETH CABOT CARY AGASSIZ died on June 27 as the result of paralytic stroke. Mrs. Agassiz was born in Boston in 1832 and in 1850 married Louis Agassiz, with whose work she was intimately associated, and whose life she wrote. Mrs. Agassiz was president of Radcliffe College until 1902.

M. U. LE VERRIER, professor of metallurgy at the Paris Conservatory of Arts and Trades, has died at the age of fifty-nine years. He was the son of the eminent astronomer.

CIVIL service examinations will be held as follows: On July 17, for the position of aid in arboriculture, at salaries ranging from \$600 to \$1,000 in the Bureau of Plant Industry; assistant in grain standardization in the same bureau at salaries ranging from \$1,000 to \$1,200; as aid in the Coast and Geodetic Survey at a salary of \$730; on July 24, for veterinary inspector in the Bureau of Animal Industry at a salary of \$1,400, increasing to \$1,800; for the position chemist aid in the Bureau of Chemistry, Department of Agriculture at a salary of \$1,000, applications for which may be filed at any time. The length of time any chemist aid may serve in this capacity in the department is limited to two years. It is expected that within that time aids will qualify for other positions in chemistry through appropriate examinations.

THE first party to take the field in connection with the cooperative investigation of the Atlantic Coastal Plain by the United States and the local geological surveys, under the direction of Mr. M. L. Fuller, of the United States Survey, is that of Mr. E. W. Berry, who has made a beginning on a detailed study of the Cretaceous flora in North Carolina. The work will include both an investigation of the river sections throughout the state by means of canoe and a thorough examination by wagon of the inter-stream areas. The expense is borne jointly by the North Carolina and national surveys. Much detailed information in regard to the lower Cretaceous floras of the state has already

been obtained, and the results promise to throw considerable additional light on the Cretaceous geology of the region.

DURING the past winter, Mr. Robert T. Hill has completed his monograph of the geology of the Windward Islands for publication in the Proceedings of the Museum of Comparative Zoology at Harvard University. This work completes Mr. Hill's series of studies on the islands of the American Mediterranean. Mr. Hill has also completed the geological map of Trans-pecos, Texas and eastern New Mexico, which finishes the work upon which he has been so long engaged in the Texas region. He has also made for the first time preliminary reconnaissance geological maps of the Mexican states of Chihuahua, Sonora, Coahuila and Nuevo Leon, and western New Mexico, Arizona and southern California. This series of reconnaissance maps, based upon Mr. Hill's long residence and study of the southwestern region, constitutes a map completely crossing the continent along the Mexican border region, and places on record the relations of the following geographic and geologic features of our country: the southern termination of the Rocky Mountain proper in New Mexico; the numerous individual mountains extending south therefrom, collectively constituting the Sierra Madre of New Mexico, Texas and northern Mexico; the outlines, boundaries and individual mountain ranges of the great Chihuahuan Desert; the southern edge of the Colorado Plateau, the area and boundaries of the great western Sierra Madre of Mexico, and the boundaries, mountain ranges and geology of the great Sonoran Desert also of Colorado, Arizona and Sonora. The geological map of Chihuahua will be published at an early date by the American Museum of Natural History in connection with a paper which Dr. E. O. Hovey has in press. The map as a whole, or parts thereof, are at the disposition of any research worker of the natural phenomenon who may wish to use the same.

The Journal of the American Medical Association says: "Last March many prominent physicians in America received notices to the

effect that they had been elected honorary members of the *Accademia fisico-chemica Italiana*, of Palermo, Italy. Each notice was accompanied by a complimentary reference to the man's scientific achievements and the request that he would send his photograph and a copy of some of his works for the library of the academy. The notice was also accompanied by a copy of the by-laws, from which it was seen that persons elected to honorary membership were expected to pay \$5 for clerical expenses of the certificate of membership, etc., and an additional sum for the engraving of the medal sent to each honorary member. The *Ztschr. f. aarzt, Fortbildung*, in a recent issue, states that similar notices have been sent to numerous prominent physicians in Europe, but that inquiry in Italy brings word that 'the so-called academy is not an institution founded for scientific purposes, but consists of more or less obscure elements who under this title devote themselves to personal and material aims.' The Berlin professor whose name figures on the prospectus of the 'academy' declares that he knows nothing at all of such an institution and that the use of his name is unwarranted. Our exchange adds that a number of physicians at home and abroad forwarded the money, etc., asked for by this 'pseudoacademy in this ingenious money-making scheme.'"

UNIVERSITY AND EDUCATIONAL NEWS

THE state legislature has passed measures providing for the development of the University of Wisconsin in three important directions. It has authorized the establishment of a college of medicine prepared to give the first two years of preclinical training. An appropriation of \$20,000 annually has been made for the development of the department of university extension, which includes a correspondence branch. The sum of \$100,000 per annum for four years has been appropriated for the erection of a woman's building and gymnasium, and the construction of the first of a system of dormitories and commons for both men and women. In addition the legislature continued for two years more the present

building fund of \$200,000 per annum, which will be used to erect buildings for biology and the allied departments of pathology, physiology and bacteriology; for horse-breeding and veterinary science, and for the addition of a wing to the engineering building.

AT the recent meeting of the board of trustees of the University of Alabama the erection of the following buildings was authorized: A central heating, lighting and pumping station, an engineering building and a building for the geological museum and the schools of geology and biology. The cornerstone of the museum building was laid May 28, the address on this occasion being delivered by Governor Braxton Bragg Comer. The building is to be known as the Eugene A. Smith Hall in honor of the services rendered during many years to the university and to the state by Dr. Eugene A. Smith, professor of mineralogy and geology and the state geologist of Alabama.

THE new medical college of the University of Manila, which will be opened early in September, will pay special attention to tropical diseases. The Philippine government has appropriated \$62,500 for the expenses of the first year of the institution.

GENERAL WM. J. PALMER has given the Engineering School of Colorado College, in Colorado Springs, the sum of \$12,000, to be expended immediately on additional equipment in the engineering laboratories for senior work.

THE late Mr. Basil McCrea has left £75,000 to Magee College, Londonderry, for the erection of residences for the professors, the further endowment of the existing chairs, and the foundation of scholarships.

UPON the recommendation of the faculty of the college of applied science, the board of regents of the State University of Iowa has determined that the degree to be given to graduates in engineering shall hereafter be bachelor of engineering. Twenty-one graduates this year received the several degrees of bachelor of science in civil engineering, in electrical engineering, in mechanical engineering and in forest engineering.